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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/981,289

DATE: 02/14/2002

TIME: 10:42:26

Input Set : A:\EP.txt

Output Set: N:\CRF3\02142002\I981289.raw

**ENTERED**

3 <110> APPLICANT: Dahiyat, Bassil I.  
 4 Filikov, Anton  
 6 <120> TITLE OF INVENTION: DESIGN AND DISCOVERY OF PROTEIN BASED TNF-ALPHA FOR THE  
 TREATMENT OF TNF-

7 ALPHA RELATED DISORDERS

9 &lt;130&gt; FILE REFERENCE: A-68990-3/RFT/RMS/RMK

11 &lt;140&gt; CURRENT APPLICATION NUMBER: US 09/981,289

12 &lt;141&gt; CURRENT FILING DATE: 2001-10-15

14 &lt;150&gt; PRIOR APPLICATION NUMBER: US 60/186,427

15 &lt;151&gt; PRIOR FILING DATE: 2000-03-02

17 &lt;150&gt; PRIOR APPLICATION NUMBER: US 09/945,150

18 &lt;151&gt; PRIOR FILING DATE: 2001-08-31

20 &lt;150&gt; PRIOR APPLICATION NUMBER: US 09/798,789

21 &lt;151&gt; PRIOR FILING DATE: 2001-03-02

23 &lt;160&gt; NUMBER OF SEQ ID NOS: 8

25 &lt;170&gt; SOFTWARE: PatentIn version 3.1

27 &lt;210&gt; SEQ ID NO: 1

28 &lt;211&gt; LENGTH: 495

29 &lt;212&gt; TYPE: DNA

30 &lt;213&gt; ORGANISM: Homo sapiens

32 &lt;400&gt; SEQUENCE: 1

33	atgcaccacc	accaccacca	cgtacgctcc	tctctccgca	ctccgtccga	caaaccggta	60
35	gctcacgtag	tagctaaccc	gcaggctgaa	ggtcagctgc	agtggctgaa	ccgccgcgct	120
37	aacgctctgc	tggctaacgg	tgtagaactg	cgcgacaacc	agctggtagt	accgtccgaa	180
39	ggctctgtacc	tgatctactc	ccagggtactg	ttcaaaggtc	aggggtgtcc	gtccactcac	240
41	gtactgctga	ctcacactat	ctcccgcatac	gctgtatcct	accagactaa	agtaaacctg	300
43	ctgtccgcta	tcaaattcccc	gtgtcagcgc	gaaactccgg	aagggtgctga	agctaaaccg	360
45	tggtacgaac	cgatctacct	gggtgggtgta	ttccagctgg	aaaaagggtga	ccgcctgtcc	420
47	gtcgaaatca	accgcccggga	ctacctggac	ttcgctgaat	ccggtcaggt	atacttcggt	480
49	atcatcgctc	tgtga					495

52 &lt;210&gt; SEQ ID NO: 2

53 &lt;211&gt; LENGTH: 164

54 &lt;212&gt; TYPE: PRT

55 &lt;213&gt; ORGANISM: Homo sapiens

57 &lt;400&gt; SEQUENCE: 2

59	Met	His	His	His	His	His	Val	Arg	Ser	Ser	Ser	Arg	Thr	Pro	Ser
60	1			5				10					15		
63	Asp	Lys	Pro	Val	Ala	His	Val	Val	Ala	Asn	Pro	Gln	Ala	Glu	Gly
64			20					25					30		
67	Leu	Gln	Trp	Leu	Asn	Arg	Arg	Ala	Asn	Ala	Leu	Leu	Ala	Asn	Gly
68			35					40					45		
71	Glu	Leu	Arg	Asp	Asn	Gln	Leu	Val	Val	Pro	Ser	Glu	Gly	Leu	Tyr
72		50					55					60			
75	Ile	Tyr	Ser	Gln	Val	Leu	Phe	Lys	Gly	Gln	Gly	Cys	Pro	Ser	Thr

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76 65          70          75          80
79 Val Leu Leu Thr His Thr Ile Ser Arg Ile Ala Val Ser Tyr Gln Thr
80          85          90          95
83 Lys Val Asn Leu Leu Ser Ala Ile Lys Ser Pro Cys Gln Arg Glu Thr
84          100          105          110
87 Pro Glu Gly Ala Glu Ala Lys Pro Trp Tyr Glu Pro Ile Tyr Leu Gly
88          115          120          125
91 Gly Val Phe Gln Leu Glu Lys Gly Asp Arg Leu Ser Ala Glu Ile Asn
92          130          135          140
95 Arg Pro Asp Tyr Leu Asp Phe Ala Glu Ser Gly Gln Val Tyr Phe Gly
96 145          150          155          160
99 Ile Ile Ala Leu
103 <210> SEQ ID NO: 3
104 <211> LENGTH: 43
105 <212> TYPE: PRT
106 <213> ORGANISM: Homo sapiens
108 <400> SEQUENCE: 3
110 Asp Gln Asp Lys Ile Glu Ala Leu Ser Ser Lys Val Gln Gln Leu Glu
111 1          5          10          15
114 Arg Ser Ile Gly Leu Lys Asp Leu Ala Met Ala Asp Leu Glu Gln Lys
115          20          25          30
118 Val Leu Glu Met Glu Ala Ser Thr Tyr Asp Gly
119          35          40
122 <210> SEQ ID NO: 4
123 <211> LENGTH: 43
124 <212> TYPE: PRT
125 <213> ORGANISM: Homo sapiens
127 <400> SEQUENCE: 4
129 Val Ala Arg Asn Thr Gly Leu Leu Glu Ser Gln Leu Ser Arg His Asp
130 1          5          10          15
133 Gln Met Leu Ser Val His Asp Ile Arg Leu Ala Asp Met Asp Leu Arg
134          20          25          30
137 Phe Gln Val Leu Glu Thr Ala Ser Tyr Asn Gly
138          35          40
141 <210> SEQ ID NO: 5
142 <211> LENGTH: 43
143 <212> TYPE: PRT
144 <213> ORGANISM: Homo sapiens
146 <400> SEQUENCE: 5
148 Asn Asp Gln Arg Leu Ala Val Leu Glu Glu Glu Thr Asn Lys His Asp
149 1          5          10          15
152 Thr His Ile Asn Ile His Lys Ala Gln Leu Ser Lys Asn Glu Glu Arg
153          20          25          30
156 Phe Lys Leu Leu Glu Gly Thr Cys Tyr Asn Gly
157          35          40
160 <210> SEQ ID NO: 6
161 <211> LENGTH: 43
162 <212> TYPE: PRT
163 <213> ORGANISM: Homo sapiens

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165 <400> SEQUENCE: 6  
167 Asp Arg Glu Arg Ile Leu Ser Leu Glu Gln Arg Val Val Glu Leu Gln  
168 1 5 10 15  
171 Gln Thr Leu Ala Gln Lys Asp Gln Ala Leu Gly Lys Leu Glu Gln Ser  
172 20 25 30  
175 Leu Arg Leu Met Glu Glu Ala Ser Phe Asp Gly  
176 35 40  
179 <210> SEQ ID NO: 7  
180 <211> LENGTH: 43  
181 <212> TYPE: PRT  
182 <213> ORGANISM: Homo sapiens  
184 <400> SEQUENCE: 7  
186 Gln Asp His Gln Ile Arg Glu Leu Thr Ala Lys Met Glu Thr Gln Ser  
187 1 5 10 15  
190 Met Tyr Val Ser Glu Leu Lys Arg Thr Ile Arg Thr Leu Glu Asp Lys  
191 20 25 30  
194 Val Ala Glu Ile Glu Ala Gln Gln Cys Asn Gly  
195 35 40  
198 <210> SEQ ID NO: 8  
199 <211> LENGTH: 27  
200 <212> TYPE: PRT  
201 <213> ORGANISM: Homo sapiens  
203 <400> SEQUENCE: 8  
205 Cys Ala Leu Val Ser Arg Gln Arg Gln Glu Leu Gln Glu Leu Arg Arg  
206 1 5 10 15  
209 Glu Leu Glu Glu Leu Ser Val Gly Ser Asp Gly  
210 20 25

~~VERIFICATION SUMMARY~~

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